FLORIDA'S ALL ROADS BASEMAP

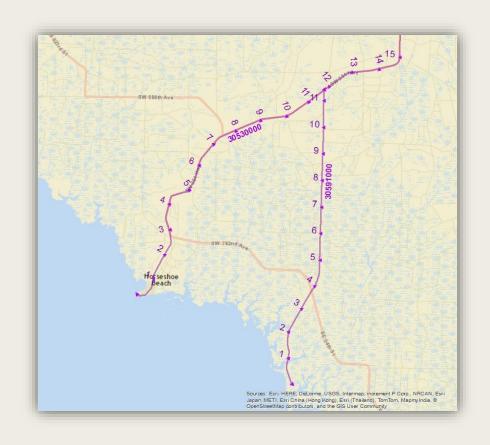
Shaun Davis
Florida Department of Transportation - State Safety Office
Florida Transportation Data Symposium - 2015

Overview

- **■** FDOT Mission
- "The department will provide a safe transportation system..."
- Strategic Highway Safety Plan
- Reduce Fatal and Serious Injury Crashes
- All Roads Basemap
- Project started in 2009



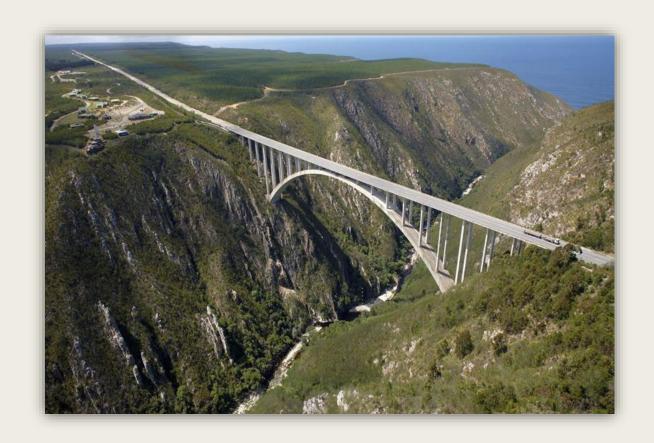
What is a Linear Referencing System?



- Roadway and Milepoints
- Locate Structures
- Guardrail
- Locate Events
- Crashes
- Measure
- Distance from point A to B on roadway
- Spatial or Tabular

Why do we need a bridge?

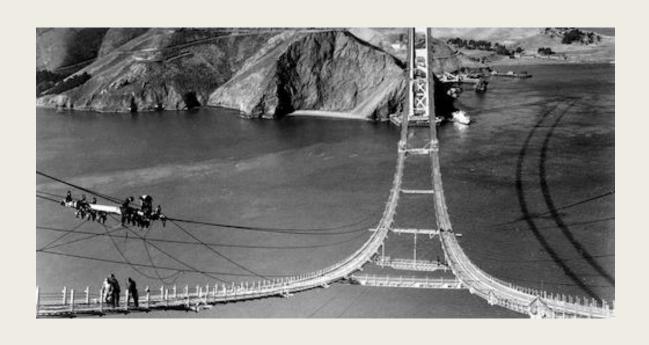
- Local road safety
- MAP 21
- No unified system
- Bridge with other data sources
- Strava (biking / running)
- Travel time reliability
- Traffic Modeling
- FDOT Environmental Screening Tool
- Intersections



It's not this...



Building the bridge

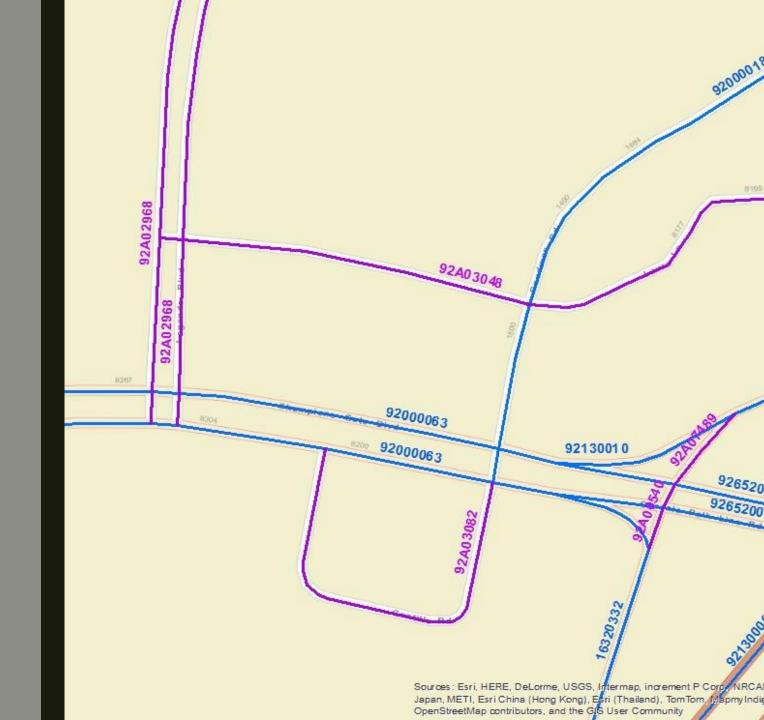


- Data
- HERE Data and RCI
- Steps
- Manual route building
- Transfer RCI routes
- Measure Milepoints
- Route Numbering
- Update Process

ARBM and RCI Routes

RCI roadways maintain same ID #

Local routes have "A" following county ID #



Using the bridge

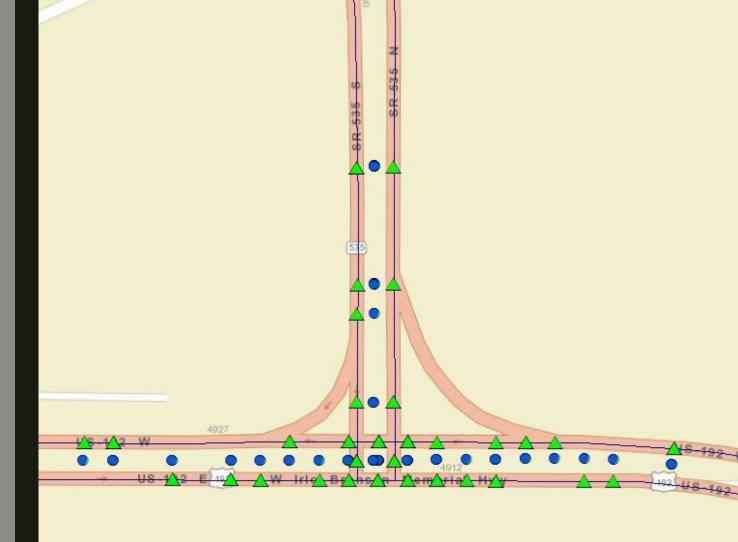
- Crashes on divided roads
- Consistent safety analysis
- Travel time reliability



Crashes on Divided Roads

Crashes in center of divided road or on right side

ARBM allows them to be placed on correct roadside



Interstates

RCI uses different route # for left side

ARBM uses same route # for left side, with L and R in roadside field



Bridge Improvements

- Accuracy improvements
- Intersection database
- Streets database



Challenges



- Built for routing
- Roadway attributes
- Divided roads
- Translating data from single line to dual line
- Proprietary